PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE				
Date of mailing (day/month/year) 10 October 2000 (10.10.00)	in its capacity as elected Office				
International application No.	Applicant's or agent's file reference				
PCT/US00/05983	7471/JB				
International filing date (day/month/year) 08 March 2000 (08.03.00)	Priority date (day/month/year) O9 March 1999 (09.03.99)				
Applicant					
MORT, Paul, R., III					
1. The designated Office is hereby notified of its election mad X in the demand filed with the International Preliminary 07 September in a notice effecting later election filed with the International Preliminary 2. The election X was was not made before the expiration of 19 months from the priority Rule 32.2(b).	y Examining Authority on: 2000 (07.09.00) national Bureau on:				
The International Bureau of WIPO	Authorized officer				
34, chemin des Colombettes 1211 Geneva 20, Switzerland	' Kiwa Mpay				
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38				

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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EE	Estonia	LR	Liberia	SG	Singapore		



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filing date (asy/month/year) (Earliest) Priority Date (day/month/year) PCT/US 00/ 05983	Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as. where applicable, item 5 below.				
Applicant THE PROCTER & GAMBLE COMPANY et al. This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of sheets. X It is also accompanied by a copy of each prior and document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. I the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). B. With regard to any nucleotide and/or amine acid sequence disclosed in the international application furnished to this Authority (Rule 23.1(b)). Contained in the international application in computer readable form. I turnished subsequently to this Authority in computer readable form. I the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application in the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. The text is approved as submitted by the applicant. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the drawings to be published with the abstract is Figure No. The figure of the dra			(Farliagh) Priority Data (day/month/sper)				
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according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	THE PROCTER & GAMBLE COMPA	ANY et al.					
It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in order form.	This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant				
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because the applicant failed to suggest a figure.	6. The figure of the drawings to be publi	shed with the abstract is Figure No.	 _				
	as suggested by the applic	cant.	None of the figures.				
because this figure better characterizes the invention.	because the applicant faile	ed to suggest a figure.					
	because this figure better	characterizes the invention.	•				

INTERNATIONAL SEARCH RE

international Application No PCT/US 00/05983

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D11/00 C11D17/06 C11D3/02 C11D3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS	CONSIDERED TO BE RELEVANT	
Category ° Cita	tion of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A I	US 5 707 953 A (KOOIJMAN CORNELIS ET AL) 13 January 1998 (1998-01-13) column 2, line 54 -column 3, line 63 column 4, line 29 -column 6, line 45 claims 1-12; examples 1-10	1,4-6,8, 10 2,3
	ปีร 4 105 827 A (BRICHARD JEAN ET AL) 8 August 1978 (1978-08-08) the whole document	1-8,10
	WO 97 12955 A (PROCTER & GAMBLE) 10 April 1997 (1997-04-10) page 6, paragraph 1 & US 5 576 285 A (FRANCE PAUL A ET AL) 19 November 1996 (1996-11-19) cited in the application	1-6

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 27 June 2000	Date of mailing of the international search report $12/07/2000$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Bertran Nadal, J

1

INTERNATIONAL SEARCH PORT

International Application No PCT/US 00/05983

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of occument, with indication, where appropriate, of the relevant passages Relevant to claim No. DE 197 13 328 A (HENKEL KGAA) 1-4,6 1 October 1998 (1998-10-01) the whole document

1

INTERNATIONAL SEARCH PORT

Information on patent family member

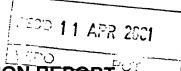
International Application No
PCT/US 00/05983

Patent document cited in search report			Publication date	į	Patent family member(s)	Publication date	
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				DE	69403207 T	16-10-1997	
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WO 9	712955	Α	10-04-1997	US	5576285 A	19-11-1996	
				BR	9610810 A	13-07-1999	
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				EP	0858500 A	19-08-1998	
				JP 	11512775 T	02-11-1999	
DE 1	9713328	Α	01-10-1998	NONE			



PATENT COOP ATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	ent's file reference			On a Navida	ation of Transmitted of International
7471/JB	FOR EIIPTHER ACTION					
Internationa	al appl	ication No.	International filing date (day/month	/year)	Priority date (day/month/year)
PCT/US	00/05	983	08/03/2000			09/03/1999
Internationa C11D11/		ent Classification (IPC) or na	tional classification and IPC	C		
Applicant						
THE PRO	OCTE	ER & GAMBLE COMPA	ANY et al.			
		ational preliminary exami smitted to the applicant a		prepared	by this Inte	ernational Preliminary Examining Authority
2. This F	REPO	ORT consists of a total of	6 sheets, including this	cover st	neet.	
b (s	een a see R		is for this report and/or 77 of the Administrative	sheets c	ontaining re	n, claims and/or drawings which have ctifications made before this Authority ne PCT).
	_	contains indications rela	ting to the following iten	ns:		·
		Basis of the report				
11		Priority Non-establishment of or	cinion with regard to no	voltu inv	antiva atan	and industrial applicability
IV		Lack of unity of inventio		veity, iiiv	ennive steb	and industrial applicability
V	\boxtimes		nder Article 35(2) with re	egard to r	novelty, inve	entive step or industrial applicability;
VI		Certain documents cite				
· VII	\boxtimes	Certain defects in the in	ternational application			
VIII		Certain observations on	•	ation		
Date of sub	missic	on of the demand		Date of c	completion of	this report
07/09/200	00			.09.04.20	01	
Name and mailing address of the international preliminary examining authority:				Authorize	ed officer	THEOUS MILEY
M	Euro D-80 Tel.	ning autnority: pean Patent Office 1298 Munich +49 89 2399 - 0 Tx: 523656 +49 89 2399 - 4465	epmu d	Irwin, L	ne No. +49 89	2399 2527

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/05983

I.	Bas	sis of the report					
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-5	,7-17	as originally filed				
	6		with telefax of	05/03/2000			
	Cla	ims, No.:					
	1-1	0	with telefax of	05/03/2000			
2.				arked above were available or furnished to this Authority in the as filed, unless otherwise indicated under this item.			
	The	ese elements were a	available or furnished to th	is Authority in the following language: , which is:			
		the language of a	translation furnished for th	e purposes of the international search (under Rule 23.1(b)).			
		the language of pu	ublication of the internation	al application (under Rule 48.3(b)).			
		the language of a 55.2 and/or 55.3).		e purposes of international preliminary examination (under Rule			
3.				d sequence disclosed in the international application, the out on the basis of the sequence listing:			
		contained in the in	iternational application in w	ritten form.			
		filed together with	the international application	n in computer readable form.			
		furnished subsequ	ently to this Authority in w	ritten form.			
		furnished subsequ	ently to this Authority in co	mputer readable form.			
			t the subsequently furnished polication as filed has been	ed written sequence listing does not go beyond the disclosure in a furnished.			
		The statement that listing has been fu		in computer readable form is identical to the written sequence			
4.	The	amendments have	resulted in the cancellation	n of:			

☐ the description,

☐ the drawings,

☐ the claims,

pages:

sheets:

Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/05983

5.	This report has been established as if (some of) the amendments had not been made, since they have been
	considered to go beyond the disclosure as filed (Rule 70.2(c)):
	(Any replacement sheet containing such amendments must be referred to under item 1 and approved to this

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1 - 10

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1 - 10

Industrial applicability (IA) Yes: Claims 1 - 10

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents (D) are referred to in this communication, and the numbering will be adhered to in the rest of the procedure:

D1: US 5 707 953 A (KOOIJMAN CORNELIS ET AL) 13 January 1998 (1998-01-13)

D2: US 4 105 827 A (BRICHARD JEAN ET AL) 8 August 1978 (1978-08-08)

D3: WO 97 12955 A (PROCTER & GAMBLE) 10 April 1997 (1997-04-10) & US 5 576 285

A (FRANCE PAUL A ET AL) 19 November 1996 (1996-11-19)

D4: DE 197 13 328 A (HENKEL KGAA) 1 October 1998 (1998-10-01)

Novelty:

- 1. The subject matter of the amended independent claim 1 (concerning a process for the preparation of a coated detergent particle is now considered to be novel since the ratios of the inorganic substances of the double salt now incorporated into claim 1 have not been suggested in the above cited prior art.
- 2. Subsequently, the remaining dependent claims 2 - 9 are also considered to be novel.
- 3. The subject matter of the independent claim 10 is presently considered to be novel with the incorporation of the inorganic material Burkeite into the composition.
- 4. Therefore the claims 1 - 10 are considered to be novel. (Article 33(2) PCT).

Inventive Step:

- 5. The document taken to comprise the closest state of the art has been taken to be D1 since this document also discloses a similar process for the production of a coated bleach composition used for laundering purposes.
- 6. The subject matter of the independent claim 1 lacks an inventive step since the only novel aspect over the prior art is the double salt and its weight ratio used. Processes

EXAMINATION REPORT - SEPARATE SHEET

for the preparation of a coated detergent particle following the steps (i) to (iv) are already well known features in the field. See D1 column 3 (lines 23 - 27), column 4 (lines 29 - 47, and 53 - 65), and column 6 (lines 3 - 22); D2 column 1 (lines 42 - 62). column 2 (lines 14 - 27) and column 3 (line 24) with examples 3 - 8. With respect to the use of the double salt, these features are mentioned in D3, see page 4, (lines 21 - 31) in which the double salt can be incorporated into similar compositions. Since the use of such double salts as dry detergent materials are well known in the art, it appears to be an obvious step for a person skilled in the art to experiment with the various options available (e.g. the use of Hanksite as in claims 7 and 10) to see if an improved effect comes about. Such an improvement needs to be shown by experimental comparative testing.

- 7. The subject matter of the dependent claims 2 - 6, 8, and 9 does not alone provide the process with an inventive step since the surfactant blends, the types of mixers used, and the water soluble non-hydrating inorganic coating materials are substances and methods well known in the art, and thus it appears to be an obvious combination for a man skilled in the art to use. See in particular, D1: column 3 (lines 23 - 27); column 4 (lines 29 - 47 and 53 - 65); column 5 (lines 39 - 56); column 6 (lines 3 - 50); and claims; and D2: column 1 (lines 42 - 62); column 2 (lines 14 - 27); and column 2 (line 40) - column 3 (line 42), with examples 3 - 8.
- 8. Likewise the use of the fluidized bed mixer with the disengagement plane (as in novel claim 9) is presently not considered to be inventive since there is no added advantage or effect disclosed in the application, nor is there sufficient support to suggest that this is truly an inventive feature, despite the fact that it has not been previously disclosed in the above cited prior art.
- 9. Therefore the claims 1 - 10 are considered to be not inventive. (Article 33(3) PCT).

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) of the PCT, the relevant background 1. art disclosed in documents D1 and D2 is not mentioned in the description, nor are

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/05983

these documents identified therein.

2. The amendments made on the replacement page 6 are fine, but the replacement page does not follow on from the original page 5 nor follow on to the original page 7.

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be used for drying while an airlift can be used for cooling should it be necessary. The air lift can also be used to force out the "fine" particles so that they can be recycled to the particle agglomeration process.

The particles of the present invention comprise at least about 50% by weight of particles having a geometric mean particle diameter of from about 500 microns to about 1500 microns and preferably have a geometric standard deviation of from about 1 to about 2. Preferably the geometric standard deviation is from about 1.0 to about 1.7, preferably from about 1.0 to about 1.4. The granular detergent composition resulting from the processes may comprise fine particles, wherein "fine particles" are defined as particles that have a geometric mean particle diameter that is less than about 1.65 standard deviations below the chosen geometric mean particle diameter of the granular detergent composition. Large particles may also exist wherein "large particles" are defined as particles that have a geometric mean particle diameter that is greater than about 1.65 standard deviations above the chosen geometric mean particle diameter of the granular detergent composition. The fine particles are preferably separated from the granular detergent composition and returned to the process by adding them to at least one of the mixers and/or the fluid bed dryer as described in detail below. Likewise, the large particles are preferably separated from the granular detergent composition and then fed to a grinder where their geometric mean particle diameter is reduced. After the geometric mean particle diameter of the large particles is reduced, the large particles are returned to the process by adding them to at least one of the mixers and/or the fluid bed dryer.

The agglomeration may comprise the step of spraying an additional binder in the mixers to facilitate production of the desired detergent particles. A binder is added for purposes of enhancing agglomeration by providing a "binding" or "sticking" agent for the detergent components. The binder is preferably selected from the group consisting of water, anionic surfactants, nonionic surfactants, polyethylene glycol, polyvinyl pyrrolidone polyacrylates, citric acid and mixtures thereof. Other suitable binder materials including those listed herein are described in Beerse et al, U.S. Patent No. 5,108,646 (Procter & Gamble Co.)

Another optional processing step to form the particle core of the present invention includes continuously adding a coating agent such as zeolites, recycled "fines" as described above and furned silica to the mixer to improve the particle color, increase the particle "whiteness or facilitate free flowability of the resulting detergent particles and to prevent over agglomeration. When employing recycled fines as the coating agent, the fines are

- 1. A process for preparing a coated detergent particle by the steps of:
 - i) providing a particle core characterized by a detergent active material;
 - ii) passing said particle core to a coating mixer;
 - iii) providing a coating solution of a water soluble, non-hydrating inorganic material to said coating mixer; and
 - iv) at least partially coating said particle core with said inorganic material in said coating mixer to form a detergent particle, characterized in that said inorganic material is the double salt Na₂SO₄:Na₂CO₃ in a weight ratio of Na₂SO₄ to Na₂CO₃ of from 80:20 to 20:80.
- 2. The process as claimed in Claim 1, wherein said particle core is characterized by a blend of anionic surfactants and dry detergent ingredients.
- 3. The process as claimed in any of Claims 1-2, wherein said blend of anionic surfactant and dry detergent ingredients is selected from the group consisting of detergent agglomerates, spray-dried particles, detergent flakes and mixtures thereof.
- 4. The process as claimed in any of Claims 1-3, wherein said coating mixer is selected from the group consisting of low speed mixers, fluid bed mixers, and combinations thereof.
- The process as claimed in any of Claims 1-4 wherein said coating mixer is an fluid bed mixer.
- The process as claimed in any of Claims 1-5, wherein said water soluble, nonhydrating inorganic material is selected from the group consisting of alkali metal carbonate salts, alkali metal sulfate salts and mixtures thereof.
- 7. The process as claimed in any of Claims 1-6, wherein said water soluble, non-hydrating inorganic material is Burkeite or Hanksite.